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| 10/051,277      | 01/22/2002  | Paul A. Lovvik       | 06502.0396-00000    | 7605             |

7590 08/03/2004

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| EXAMINER |
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PANNALA, SATHYANARAYA R

| ART UNIT | PAPER NUMBER |
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2177

DATE MAILED: 08/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/051,277

Applicant(s)

LOVVIK ET AL.

Examiner

Sathyanarayan Pannala

Art Unit

2177

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>5</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

1. The Application 10/051277 filed on 1/22/2002 has been examined. Claims 1-19 are pending in this Office Action.

### ***Information Disclosure Statement***

2. The Information Disclosure Statement (IDS) submitted on 1/22/2002 is in compliance with the provisions of 37 CFR 1.97 and has been considered by the examiner.

### ***Specification***

3. The abstract is objected because the abstract is a copy of the claim 1 and it is also a part of the summary. Corrected abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly

those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

4. The disclosure is objected to because of the following informalities:

- On page 3, line 5, listed as <http://...>, whereas direct Internet links in the disclosure is not allowed and it should be removed.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hendler et al. USPA Pub (2003/0140065) hereinafter Hendler.

7. As per independent claim 1, anticipated by Hendler and teaches a method and apparatus for streaming an archive files including JAVA archive file from a server to a client device (page 2, paragraph 0009). The client received stream file is stored at the client device in a JAVA Archive format (page 2, paragraph 0010). Hendler also teaches as Archive files could be of tar, zip files (page 7, paragraph 0067). Hendler teaches the claimed step of "receiving a stream of data containing a zip file, wherein the zip file comprises a set of files and a central directory" as Archive files can be streamed by extracting modules to client terminal 410 (Fig. 4, page 7, paragraph 0067); Further, Hendler teaches the claimed step of "enabling a process to access contents of the central directory as it is received" as the contents of each local file header is repeated in a central directory 640 located at the end of the ZIP archive (Fig. 6, page 7, paragraph 0069).

8. As per dependent claim 2, Hendler teaches the claimed step of "the enabling step comprises providing an interface for accessing contents of the central directory" as the Zip file's central directory 640 includes an end of central directory record 640, the central directory is accessible as a part of the zip file (Fig. 6, page 7, paragraph 0070).

9. As per dependent claim 3, Hendler teaches the claimed step of "reading in a central directory file header" as the sizes of compressed files 601-606 can be obtained

from the central directory header and the central directory header is read (Fig. 6, page 7, paragraph 0071). Further, Hendler teaches the claimed step of “providing an interface to access contents of the central directory file header” as the sizes of compressed files 601-606 can be obtained from the central directory file header and the central directory file header is accessed through an interface (Fig. 6, page 7, paragraph 0071).

10. As per dependent claim 4, Hendler teaches the claimed step of “reading in an end of central directory record” as the central directory 640 has an end record 647 and contains the total number of entries in the central directory end record and at the central directory end record is read to access the contents (Fig. 6, page 7, paragraph 0070). Further, Hendler teaches the claimed step of “providing an interface to access contents of the end of central directory record” as the central directory 640 has an end record 647 and contains the total number of entries in the central directory and the interface is provided to access the central directory end record (Fig. 6, page 7, paragraph 0070).

11. As per independent claim 5, anticipated by Hendler and teaches a method and apparatus for streaming an archive files including JAVA archive file from a server to a client device (page 2, paragraph 0009). The client received stream file is stored at the client device in a JAVA Archive format (page 2, paragraph 0010). Hendler also teaches as Archive files could be of tar, zip files (page 7, paragraph 0067). Hendler teaches the claimed “a central processing unit” as the client computer 101 communicates with the

server computer 102 (Fig. 1, page 3, paragraph 0029). Further, Hendler teaches the claimed “an application program configured for execution by the central processing unit” as the server 401 provides a streaming-enabled version of application 500 to the client 410 (Fig. 4-5, page 6, paragraph 0060). Further, Hendler teaches the claimed “a receiving module, initiated by the application program, for receiving a streamed zip file” as the receiving device 410 includes a streaming executer 416 that controls the receipt of the streamed modules (Fig. 4, 6, page 8, paragraph 0075). Finally, Hendler teaches the claimed step of “an interface module, initiated by the application program, for accessing contents of a central directory of the streamed zip file as the central directory is received” as the integration of streamed modules with executing modules are provided by client 410 dynamic module linking facilities (Fig. 4, page 7, paragraph 0065).

12. As per dependent claim 6, Hendler teaches the claimed “the interface module is a Java class comprising a central header subclass and a central directory subclass” as the streamed modules have a Java class comprising central directory headers 641-646 and central directory 640 as subclasses (Fig. 6, page 9, paragraph 0084).

13. As per dependent claim 7, Hendler teaches the claimed “the receiver module reads in a central directory header as an object instance of the central header subclass” as the central directory class headers 641-646 and the stream executer 416 controls the activity of the client 410 (Fig. 6, page 9, paragraph 0069-0070).

14. As per dependent claim 8, Hendler teaches the claimed “the central header subclass comprises a set of methods for accessing contents of the object instance” as the central directory headers as subclasses 641-646 and contents of object instances are accessed to get sizes and offset information (Fig. 6, page 8, paragraph 0074).

15. As per dependent claim 9, Hendler teaches the claimed “the receiver module reads in an end of central directory record as an object instance of the central directory subclass” as the central directory end record 647 and the stream executor 416 controls the activity of the client 410 (Fig. 6, page 7, paragraph 0070).

16. As per dependent claim 10, Hendler teaches the claimed “the central directory subclass comprises a set of methods for accessing contents of the object instance” as the central directory subclass and the stream executor 416 controls the activity of the client 410 including accessing objects 641-647 (Fig. 6, page 8, paragraph 0077).

17. As per independent claim 11, anticipated by Hendler and teaches a method and apparatus for streaming an archive files including JAVA archive file from a server to a client device (page 2, paragraph 0009). The client received stream file is stored at the client device in a JAVA Archive format (page 2, paragraph 0010). Hendler also teaches as Archive files could be of tar, zip files (page 7, paragraph 0067). Hendler teaches the claimed “a receiving module for receiving a streamed zip file” as the receiving device



410 includes a streaming executor 416 that controls the receipt of the streamed modules (Fig. 4, 6, page 8, paragraph 0075). Finally, Hendler teaches the claimed step of “interface module for accessing contents of a central directory of the streamed zip file as the central directory is received” as the integration of streamed modules with executing modules are provided by client 410 dynamic module-linking facilities (Fig. 4, page 7, paragraph 0065).

18. As per dependent claim 12, Hendler teaches the claimed “the interface module is a Java class comprising a central header subclass and a central directory subclass” as the streamed modules have a Java class comprising central directory headers 641-646 and central directory 640 as subclasses (Fig. 6, page 9, paragraph 0084).

19. As per dependent claim 13, Hendler teaches the claimed “the receiver module reads in a central directory header as an object instance of the central header subclass” as the central directory class headers 641-646 and the stream executor 416 controls the activity of the client 410 (Fig. 4, 6, page 9, paragraph 0069-0070).

20. As per dependent claim 14, Hendler teaches the claimed “the central header subclass comprises a set of methods for accessing contents of the object instance” as the central directory headers as subclasses 641-646 and contents of object instances are accessed to get sizes and offset information (Fig. 6, page 8, paragraph 0074).

21. As per dependent claim 15, Hendler teaches the claimed “the receiver module reads in an end of central directory record as an object instance of the central directory subclass” as the end of central directory record 647 and the stream executor 416 controls the activity of the client 410 to read contents (Fig. 6, page 7, paragraph 0070).

22. As per dependent claim 16, Hendler teaches the claimed “the central directory subclass comprises a set of methods for accessing contents of the object instance” as the central directory subclass and the stream executor 416 controls the activity of the client 410 including accessing accesses objects 641-47 (Fig. 4, 6, page 8, paragraph 0077).

23. As per independent claim 17, anticipated by Hendler and teaches a method and apparatus for streaming an archive files including JAVA archive file from a server to a client device (page 2, paragraph 0009). The client received stream file is stored at the client device in a JAVA Archive format (page 2, paragraph 0010). Hendler also teaches as Archive files could be of tar, zip files (page 7, paragraph 0067). Hendler teaches the claimed “an interface stored in the memory, the interface for use with a receiver configured for receiving a streamed zip file, wherein the zip file comprises a set of files and a central directory, the interface comprising a process for accessing contents of the central directory as it is received” as the receiving device 410 includes a streaming executor 416 that controls the receipt of the streamed modules (Fig. 4, 6, page 8,

paragraph 0075). Also, Hendler teaches as the integration of streamed modules with executing modules are provided by 410 dynamic module-linking facilities (Fig. 4, page 7, paragraph 0065).

24. As per dependent claim 18, Hendler teaches the claimed "the process is a Java class comprising a set of methods for accessing contents of an object instance of the Java class, wherein the object instance comprises a central directory header read in by the receiver" as the central directory class headers 641-646 and the stream executor 416 controls the activity of the client 410 (Fig. 6, page 9, paragraph 0069-0070).

25. As per dependent claim 19, Hendler teaches the claimed "the process is a Java class comprising a set of methods for accessing contents of an object instance of the Java class, wherein the object instance comprises an end of central directory record read in by the receiver" as the end of central directory record 647 and the stream executor 416 controls the activity of the client 410 (Fig. 6, page 7, paragraph 0070).

### ***Conclusion***

26. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

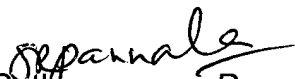
27. If a reference indicated, as being mailed on PTO-FORM 892 has not been enclosed in this action, please contact Lisa Craney whose telephone number is (703) 305-9601 for faster service.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sathyanarayan Pannala whose telephone number is (703) 305-3390. The examiner can normally be reached on 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Sathyanarayan Pannala  
Examiner  
Art Unit 2177

srp  
July 26, 2004